

SECTION 5

Mitigation Monitoring, Reporting and Compliance Program

PUBLIC UTILITIES COMMISSION

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MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM

PACIFIC GAS & ELECTRIC COMPANY'S LAKEVILLE-SONOMA 115 KV TRANSMISSION LINE PROJECT (APPLICATION NO. 04-11-011)

INTRODUCTION

This document describes a proposed mitigation monitoring reporting and compliance program (MMRCP) for ensuring the effective implementation of the mitigation measures required for the California Public Utilities Commission (CPUC) approval of the Pacific Gas and Electric Company (PG&E) application to construct and operate an approximately 7.23-mile transmission line between the Lakeville and Sonoma Substations. All mitigations are presented in Table 5-1 provided at the end of this MMRCP.

If the project is approved, the MMRCP should serve as a self-contained general reference for the Mitigation Monitoring Program adopted by the Commission for the project. If and when a project has been approved by the Commission, the CPUC will compile the Final Plan from the Mitigation Monitoring Program in the Final MND, as adopted.

California Public Utilities Commission – MMRCP Authority

The California Public Utilities Code in numerous places confers authority upon the CPUC to regulate the terms of service and the safety, practices and equipment of utilities subject to its jurisdiction. It is the standard practice of the CPUC, pursuant to its statutory responsibility to protect the environment, to require that mitigation measures stipulated as conditions of approval be implemented properly, monitored, and reported on. In 1989, this requirement was codified statewide as Section 21081.6 of the Public Resources Code. Section 21081.6 requires a public agency to adopt a MMRCP when it approves a project that is subject to preparation of a Mitigated Negative Declaration and where the MND for the project identifies potentially significant environmental effects. CEQA Guidelines Section 15097 was added in 1999 to further clarify agency requirements for mitigation monitoring and reporting.

The purpose of a MMRCP is to ensure that measures adopted to mitigate or avoid significant impacts of a project are implemented. The CPUC views the MMRCP as a working guide to facilitate

not only the implementation of mitigation measures by the project proponent, but also the monitoring, compliance and reporting activities of the CPUC and any monitors it may designate.

The Commission will address its responsibility under Public Resources Code Section 21081.6 when it takes action on PG&E's application for a Certificate of Public Convenience and Necessity. If the Commission approves the application, it will also adopt a Mitigation Monitoring, Compliance, and Reporting Program that includes the mitigation measures ultimately made a condition of approval by the Commission.

Project Description

PG&E, who currently owns a single-circuit 115 kV electric transmission system in the Petaluma–Napa–Sonoma area of the San Francisco Bay Area Region, requests to install a second 115 kV transmission circuit within its existing single-circuit 115 kV transmission line route between its Lakeville (at the eastern edge of the City of Petaluma) and Sonoma Substations (at the southern edge of the City of Sonoma). The second 115 kV transmission line would be installed on a rebuilt version of PG&E's existing single-circuit 115 kV transmission line, thus co-locating the two circuits on a single set of poles. The transmission line would begin at the Lakeville Substation, parallel Adobe Road for approximately 1.2 miles, and then pass northeast through vineyards and ranch lands for approximately 3.6 miles. The line roughly would then parallel Felder Road for approximately .08 miles from the junction of Felder Road and Felder Creek east to the junction of Felder Road and Leveroni Road where would continue, approximately 1.7 miles, following Leveroni Road, to the Sonoma Substation.

PG&E, as part of this project, also proposes to modify the Lakeville and Sonoma Substations. At the Lakeville Substation, PG&E proposes modification to the existing substation yard as well as installation of facilities to support a 115 kV line position. One new tubular steel pole (TSP) would be located within the substation property line. Similarly, at the Sonoma Substation, PG&E would install facilities to support the new 115 kV line position and replace an existing wood pole with a TSP.

Because the CPUC must decide whether or not to approve the PG&E application and because the application may cause either direct or reasonably foreseeable indirect effects on the environment, the California Environmental Quality Act (CEQA) requires the CPUC to consider the potential environmental impacts that could occur as the result of its decisions and to consider mitigation for any identified significant environmental impacts.

If the CPUC approves PG&E's application for authority to construct and operate the transmission line and modify its substations, PG&E would be responsible for implementation of any mitigation measures governing both construction and future operation of the transmission line and substations. Though other state and local agencies would have permit and approval authority over the construction transmission line, the CPUC would continue to act as the lead agency for monitoring compliance with all mitigation measures required by this Draft MND. All approvals and permits obtained by PG&E would be submitted to the CPUC for mitigation compliance prior to commencing the activity for which the permits and approvals were obtained.

In accordance with CEQA, the CPUC reviewed the impacts that would result from approval of the application. The activities considered include the construction of the new transmission line and modifications to the Lakeville and Sonoma Substations, and the future operation of the transmission line and substations. The CPUC review concluded that all potential impacts could be mitigated to less than significant levels. PG&E has agreed to incorporate all the proposed mitigation measures into the project. The CPUC has included the stipulated mitigation measures as conditions of approval of the application and has circulated a Draft MND.

The attached Mitigated Negative Declaration presents and analyzes potential environmental impacts that would result from construction and operation of the new transmission line and substation modifications, and proposes mitigation measures, as appropriate.

Based on the Mitigated Negative Declaration, approval of the application would have no impact or less than significant impacts in the following areas:

- Geology, Soils, and Seismicity
- Hydrology and Water Quality
- Mineral Resources
- Population and Housing
- Mandatory Findings of Significance

The Draft Mitigated Negative Declaration indicates that approval of the application would result in potentially significant impacts in the areas of:

- Aesthetics
- Agriculture Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Hazards and Hazardous Materials
- Land Use and Planning
- Noise
- Public Services
- Recreation
- Transportation and Traffic
- Utilities and Service Systems

Roles and Responsibilities

As the lead agency under CEQA, the CPUC is required to monitor this project to ensure that the required mitigation measures and Applicant Proposed Measures are implemented. The CPUC will be responsible for ensuring full compliance with the provisions of this MMRCP and has primary responsibility for implementation of the monitoring program. The purpose of the monitoring program is to document that the mitigation measures required by the CPUC are implemented and that mitigated environmental impacts are reduced to the level identified in the Program. The CPUC has the authority to halt any activity associated with the proposed project if the activity is determined to be a deviation from the approved project or the adopted mitigation measures.

The CPUC may delegate duties and responsibilities for monitoring to other mitigation monitors or consultants as deemed necessary. The CPUC will ensure that the person(s) delegated any duties or responsibilities are qualified to monitor compliance.

The CPUC, along with its mitigation monitor, will ensure that any variance process or deviation from the procedures identified under the monitoring program is consistent with CEQA requirements; no project variance will be approved by the CPUC if it creates new significant environmental impacts. As defined in this MMRCP, a variance should be strictly limited to minor project changes that will not trigger other permit requirements, that does not increase the severity of an impact or create a new impact, and that clearly and strictly complies with the intent of the mitigation measure. A proposed project change that has the potential for creating significant environmental effects will be evaluated to determine whether supplemental CEQA review is required. Any proposed deviation from the approved project and adopted mitigation measures, including correction of such deviation, shall be reported immediately to the CPUC and the mitigation monitor assigned to the construction for their review and approval. In some cases, a variance may also require approval by a CEQA responsible agency.

Enforcement and Responsibility

The CPUC is responsible for enforcing the procedures for monitoring through the environmental monitor. The environmental monitor shall note problems with monitoring, notify appropriate agencies or individuals about any problems, and report the problems to the CPUC. The CPUC has the authority to halt any construction, operation, or maintenance activity associated with the project if the activity is determined to be a deviation from the approved project or adopted mitigation measures. The CPUC may assign its authority to their environmental monitor.

Mitigation Compliance Responsibility

PG&E is responsible for successfully implementing all the adopted mitigation measures in this MMRCP. The MMRCP contains criteria that define whether mitigation is successful. Standards for successful mitigation also are implicit in many mitigation measures that include such requirements as obtaining permits or avoiding a specific impact entirely. Additional mitigation success thresholds will be established by applicable agencies with jurisdiction through the permit process and through the review and approval of specific plans for the implementation of mitigation measures.

PG&E shall inform the CPUC and its mitigation monitor in writing of any mitigation measures that are not or cannot be successfully implemented. The CPUC in coordination with its mitigation monitor will assess whether alternative mitigation is appropriate and specify to PG&E the subsequent actions required.

Dispute Resolution Process

This MMRCP is expected to reduce or eliminate many of the potential disputes concerning the implementation of the adopted measures. However, in the event that a dispute occurs, the following procedure will be observed:

- **Step 1.** Disputes and complaints (including those of the public) should be directed first to the CPUC's designated Project Manager for resolution. The Project Manager will attempt to resolve the dispute.

- **Step 2.** Should this informal process fail, the CPUC Project Manager may initiate enforcement or compliance action to address deviations from the Proposed Project or adopted Mitigation Monitoring Program.
- **Step 3.** If a dispute or complaint regarding the implementation or evaluation of the MMRCPP or the mitigation measures cannot be resolved informally or through enforcement or compliance action by the CPUC, any affected participant in the dispute or complaint may file a written “notice of dispute” with the CPUC’s Executive Director. This notice should be filed in order to resolve the dispute in a timely manner, with copies concurrently served on other affected participants. Within 10 days of receipt, the Executive Director or designee(s) shall meet or confer with the filer and other affected participants for purposes of resolving the dispute. The Executive Director shall issue an Executive Resolution describing his/her decision, and serve it on the filer and other affected participants.
- **Step 4.** If one or more of the affected parties is not satisfied with the decision as described in the Resolution, such party(ies) may appeal it to the Commission via a procedure to be specified by the Commission.

Parties may also seek review by the Commission through existing procedures specified in the Commission’s Rules of Practice and Procedure for formal and expedited.

General Monitoring Procedures

Mitigation Monitor

Many of the monitoring procedures will be conducted during the construction phase of the project. The CPUC and the mitigation monitor are responsible for integrating the mitigation monitoring procedures into the construction process in coordination with PG&E. To oversee the monitoring procedures and to ensure success, the mitigation monitor assigned to the construction must be on site during that portion of construction that has the potential to create a significant environmental impact or other impact for which mitigation is required. The mitigation monitor is responsible for ensuring that all procedures specified in the monitoring program are followed.

Construction Personnel

A key feature contributing to the success of mitigation monitoring will be obtaining the full cooperation of construction personnel and supervisors. Many of the mitigation measures require action on the part of the construction supervisors or crews for successful implementation. To ensure success, the following actions, detailed in specific mitigation measures included in the MMRCPP, will be taken:

- Procedures to be followed by construction companies hired to do the work will be written into contracts between PG&E and any construction contractors. Procedures to be followed by construction crews will be written into a separate agreement that all construction personnel will be asked to sign, denoting agreement.

- One or more pre-construction meetings will be held to inform all and train construction personnel about the requirements of the MMRCP.
- A written summary of mitigation monitoring procedures will be provided to construction supervisors for all mitigation measures requiring their attention.

General Reporting Procedures

Site visits and specified monitoring procedures performed by other individuals will be reported to the mitigation monitor assigned to the construction. A monitoring record form will be submitted to the mitigation monitor by the individual conducting the visit or procedure so that details of the visit can be recorded and progress tracked by the mitigation monitor. A checklist will be developed and maintained by the mitigation monitor to track all procedures required for each mitigation measure and to ensure that the timing specified for the procedures is adhered to. The mitigation monitor will note any problems that may occur and take appropriate action to rectify the problems. PG&E shall provide the CPUC with written quarterly reports of the project, which shall include progress of construction, resulting impacts, mitigation implemented, and all other noteworthy elements of the project. Quarterly reports shall be required as long as mitigation measures are applicable.

Public Access to Records

The public is allowed access to records and reports used to track the monitoring program. Monitoring records and reports will be made available for public inspection by the CPUC on request. The CPUC and PG&E will develop a filing and tracking system.

Condition Effectiveness Review

In order to fulfill its statutory mandates to mitigate or avoid significant effects on the environment and to design a MMRCP to ensure compliance during project implementation (CEQA 21081.6):

- The CPUC may conduct a comprehensive review of conditions which are not effectively mitigating impacts at any time it deems appropriate, including as a result of the Dispute Resolution procedure outlined above; and
- If in either review, the CPUC determines that any conditions are not adequately mitigating significant environmental impacts caused by the project, or that recent proven technological advances could provide more effective mitigation, then the CPUC may impose additional reasonable conditions to effectively mitigate these impacts.

These reviews will be conducted in a manner consistent with the CPUC's rules and practices.

Mitigation Monitoring and Reporting Program

The table attached to this program presents a compilation of the mitigation measures in the Draft Mitigated Negative Declaration. The purpose of the table is to provide a single comprehensive list of mitigation measures, effectiveness criteria, and timing.

TABLE 5-1
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Land Use, Plans, and Policies				
Impact 2.1-1: The proposed substation improvements and a portion of the transmission line within the city of Sonoma from about Fifth Street West to the Sonoma Substation would be inconsistent with the City of Sonoma General Plan's intent for the <i>Gateway Commercial</i> designation. This would be a less than significant impact with implementation of Mitigation Measure 2.1-1.	Mitigation Measure 2.1-1: PG&E shall install the new 115 kV single-circuit transmission line underground beneath Leveroni Road from approximately Fifth Street West to the Sonoma Substation (see Figure 2.1-4), where the circuit would emerge through a substation riser structure and terminate on a substation bus structure. Pole 108, which shall be configured to allow the new circuit to be transferred underground and the existing circuit to continue to the next existing pole, shall be the last overhead pole (a 75-foot tall tubular steel riser pole) of the proposed new transmission line. This underground portion of the new transmission line shall be designed and installed as described in <i>Lakeville-Sonoma 115 kV Transmission Line Project Environmental Assessment Addressing Undergrounding 115 kV Transmission Line along Leveroni Road (between 5th Street West and Sonoma Substation) in the City of Sonoma</i> (EDAW, 2005).	PG&E and/or its contractor(s) to implement measure as defined.	CPUC mitigation monitor to inspect compliance at least once weekly until underground portion of the transmission line has been completed.	During construction of the underground portion of the transmission line from Fifth Street West to the Sonoma Substation.
Agricultural Resources				
Impact 2.2-1: The Proposed Project would result in the temporary removal of farmland that is designated <i>Prime Farmland</i> and <i>Farmland of Statewide Importance</i> . In total, the construction staging areas, pull sites and crane pads, and new access roads would temporarily reduce the amount of land available for agricultural purposes by about 30 acres, about half of which would be on lands designated as <i>Prime Farmland</i> and <i>Farmland of Statewide Importance</i> .	Mitigation Measure 2.2-1: PG&E shall preserve the topsoil beneath temporary construction activities areas (i.e., on staging areas, pull sites, and temporary access roads) on agricultural lands by laying fabric topped with a layer of gravel over the areas prior to their use. After construction activities are complete, PG&E shall remove the gravel and fabric and implement the measures specified in the SWPPP Plan which shall be prepared and submitted to the CPUC for approval prior to construction.	PG&E and/or its contractor(s) to implement measure as defined.	CPUC mitigation monitor to inspect to ensure that soils are being properly protected and that site is fully restored to pre-construction conditions.	CPUC mitigation monitor to inspect compliance at least once after installation of soil protection and once after restoration is complete.
Air Quality				
Impact 2.3-1: Construction activities associated with the project would generate emissions of criteria pollutants, including suspended and inhalable particulate matter and equipment exhaust emissions.	Mitigation Measure 2.3-1a: During construction, PG&E shall ensure that its employees and contractors implement the following measures prescribed by BAAQMD to ensure the reduction of the project's contribution to local PM10 concentrations are to a level that is less than significant:			

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> For all active construction areas, water as needed or apply soil stabilizers to control dust. Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard. If applicable, sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at or nearby construction sites. Sweep streets daily (with water sweepers) if visible soil materials are carried onto adjacent public streets. 	<p>PG&E shall submit documentation to the CPUC that PG&E has made a binding commitment to participate in the BAAQMD prescribed measures and has given notice of such participation to the Planning Director of the BAAQMD.</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>Receipt by the CPUC of describes documentation. CPUC mitigation monitor to inspect compliance at least once a week</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>Submit documentation to CPUC prior to commencing construction activities.</p> <p>During all phases of construction</p> <p>During all phases of construction</p> <p>During all phases of construction</p>
	<p>Mitigation Measure 2.3-1b: The following enhanced control measures shall be implemented at the Leveroni Road staging area or any construction sites greater than four acres pursuant to BAAQMD requirements:</p> <ul style="list-style-type: none"> Hydroseed or apply (non-toxic) soil stabilizers to previously graded inactive (for more than 10 days) construction areas. Enclose, cover, water twice daily, or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand, etc.) 	<p>PG&E and/or its contractor(s) to implement measure as defined</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>CPUC mitigation monitor to inspect compliance at the site if hydroseeding is needed.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>During periods of active use of the staging area and upon reclamation of the site.</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> Limit traffic speeds on unpaved roads to 15 mph. 	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to inspect compliance at least once a week	During all phases of construction
	<ul style="list-style-type: none"> Install sandbags or other erosion control measures to prevent silt runoff to public roadways. 	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to inspect compliance at least once a week	During all phases of construction
	<p>Mitigation Measure 2.3-1c: To mitigate equipment exhaust emissions, PG&E shall require its employees and/or construction contractors to comply with the following requirements:</p> <ul style="list-style-type: none"> Properly tune and maintain construction equipment in accordance with manufacturers' recommended maintenance schedule, if reasonably available. This applies to vehicles used for construction activities only, and does not apply to commuter vehicles. Use best management construction practices to avoid unnecessary emissions (i.e., require trucks and vehicles in loading and unloading queues to turn engines off when not in use). Use diesel trucks which are post-1991 based on CARB inspection program (dated June 3, 1998) for heavy-duty diesel trucks and buses (CARB, 1998). 	<p>If PG&E and/or its contractor(s) do not have the manufacturers' recommended maintenance schedule for a construction vehicle, PG&E must use reasonable effort to assure construction vehicle is properly maintained. A proposed schedule of construction vehicle maintenance shall be submitted to the CPUC for approval</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>CPUC to review and approve submitted maintenance plan, which is to include implementation method (i.e. manufacturer's recommended maintenance, PG&E managed maintenance, etc.) and schedule</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>One week prior to and during construction if equipment type changes.</p> <p>During all phases of construction</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> Implement a carpooling strategy for construction workers prior to commencing construction (during construction worker orientation and training). 	PG&E to prepare and submit a carpooling strategy to the CPUC	CPUC to review and approve submitted carpooling strategy; CPUC mitigation monitor to inspect compliance with carpooling strategy at least once weekly	Carpooling strategy to be submitted at least two weeks prior to construction worker orientation and training; CPUC mitigation monitor to inspect compliance during all phases of construction
Impact 2.3-2: Construction activities associated with Mitigation Measure 2.1-1 would generate additional emissions of criteria pollutants, including suspended and inhalable particulate matter and equipment exhaust emissions. Implementation of Mitigation Measure 2.1-1 could violate air quality standards or contribute substantially to an existing or projected air quality violation.	Mitigation Measure 2.3-2: Implement Mitigation Measures 2.3-1a, 2.3-1b, and 2.3-1c.	See Mitigation Measures 2.3-1a, 2.3-1b, and 2.3-1c.	See Mitigation Measures 2.3-1a, 2.3-1b, and 2.3-1c.	See Mitigation Measures 2.3-1a, 2.3-1b, and 2.3-1c.
Impact 2.3-3: Construction activities would generate emissions of criteria pollutants, including suspended and inhalable particulate matter and equipment exhaust emissions. These activities could expose sensitive receptors to substantial pollutant concentrations.	Mitigation Measure 2.3-3: Implement Mitigation Measures 2.3-1a, 2.3-1b, and 2.3-1c.	See Mitigation Measures 2.3-1a, 2.3-1b, and 2.3-1c.	See Mitigation Measures 2.3-1a, 2.3-1b, and 2.3-1c.	See Mitigation Measures 2.3-1a, 2.3-1b, and 2.3-1c.

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Biological Resources				
Impact 2.4-1: Construction activities associated with pole removal and installation and equipment access could result in temporary or permanent impacts to special-status plants located within the vicinity of the transmission line alignment.	<p>Mitigation Measure 2.4-1a: PG&E shall contract with a Specialist¹ to conduct preconstruction surveys for special status plants. Preconstruction surveys shall occur during the appropriate blooming period immediately prior to the start of construction activities at poles 43 and 44 and poles 58 and 59. The Specialist shall establish an appropriate protection zone around known populations of Lobb's aquatic buttercup and <i>cotula navarretia</i> and any new populations of special-status plants observed during preconstruction surveys. The protection zone shall be staked and flagged in the field prior to construction by a qualified botanist. To the extent feasible, poles or other project components shall not be placed in areas where these plant populations have been identified. If avoidance of special-status plants is not feasible, PG&E shall contract with a Specialist to harvest plant seeds and top-soil for post-construction restoration or replanting in an appropriate location. PG&E shall prepare a Special Status Plant Species Protection Plan that shall incorporate the following measures which shall be implemented during all phases of construction in areas marked in the field with temporary fencing:</p> <ul style="list-style-type: none"> Restrict construction personnel and equipment from entering the fenced protected area (exclusion zone and plant habitat) for any purpose. Protection areas shall remain until all construction activities have concluded in known areas of special-status plant species. 	<p>PG&E and/or its contractor(s) to implement measure as defined.</p> <p>PG&E to prepare and submit a Special Status Plant Protection Plan to CPUC.</p> <p>PG&E and/or its contractor(s) to implement measure as defined.</p>	<p>PG&E to submit contact information, qualifications of Specialist, and copy of contract with that Specialist to CPUC for approval. PG&E will obtain approval of the Specialist prior to conducting rare plant surveys in the event surveys must be initiated before CPUC approval of the project.</p> <p>CPUC to review and approve submitted Special Status Plant Species Protection Plan.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week.</p>	<p>One month prior to start of construction.</p> <p>One month prior to start of construction or one month prior to survey initiation.</p> <p>During all phases of construction.</p> <p>During all phases of construction.</p>

¹ Specialist is defined as a botanist, biologist qualified to handle special status species, paleontologist or other monitor with specialized qualifications.

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> During construction activities near areas of known special-status plant occurrences, daily monitoring shall occur using a qualified Environmental Monitor² to ensure protection zones and water quality measures are being implemented at construction sites. If direct or indirect impacts to special-status plant species are observed then the monitoring biologist shall notify the construction manager immediately. Examples of impacts may include, but are not limited to damage to exclusionary fencing or water or sediment from construction areas entering exclusion zone. The Environmental Monitor shall report any direct or indirect impacts resulting from construction activities in daily monitoring report. Keep construction vehicles on designated access routes only. Do not fuel or repair construction vehicles within the vicinity of special status plants. 	<p>PG&E's Environmental Monitor shall report any direct or indirect impacts resulting from construction activities in daily monitoring report.</p> <p>PG&E and/or its contractor(s) to implement measure as defined.</p>	<p>PG&E's Environmental Monitor shall submit the daily monitoring report to CPUC on a weekly basis for review.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week.</p>	<p>During all phases of construction.</p> <p>During all phases of construction.</p>
Same as above.	<p>Mitigation Measure 2.4-1b: Project construction shall avoid known habitat for Lobb's aquatic buttercup to the extent feasible. To the extent feasible, major earthmoving activities in the vicinity of poles 43 and 44 shall occur during the dry season (June 1 to October 15), or, if this is not feasible, the appropriate erosion and sediment control measures to prevent water quality degradation as described in the SWPPP Plan.</p> <p>To the extent feasible, poles and other project components shall not be placed in known habitat for Lobb's aquatic buttercup. If habitat for this species cannot be avoided, Mitigation Measure 2.4-7f shall be implemented to compensate for the direct loss of vernal pool habitat.</p>	See Mitigation Measure 2.4-7f	See Mitigation Measure 2.4-7f	See Mitigation Measure 2.4-7f

² Environmental Monitor is defined as an individual (generally trained as a biologist) who is qualified to monitor hazardous materials, SWPPP, and biological issues not covered by the specialist.

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Impact 2.4-2: Construction of the transmission line could result in temporary and permanent impacts to California red-legged frog breeding and associated upland habitat.	Mitigation Measure 2.4-2: PG&E shall implement measures to minimize and avoid “take” of California red-legged frog. These measures include complying with the federal Endangered Species Act and implementation of measures that would substantially reduce the risk of incidental “take” of CRLF within the project area. Prior to and during construction, PG&E shall perform the following actions to minimize adverse effects to California red-legged frog: <ul style="list-style-type: none"> To the extent feasible, earthmoving activities in the vicinity of Felder Creek shall be conducted during the dry season (June 1-October 1). PG&E shall contract with a Specialist and submit the name and credentials of this individual to act as construction monitor(s) to USFWS for approval at least 15 days prior to commencement of any construction activities. Immediately prior to activities in the vicinity of Felder Creek, the USFWS-approved Specialist shall perform a preconstruction survey for California red-legged frog. The survey area should consist of all proposed wet season work sites within one mile of Felder Creek and should include all suitable aquatic and upland habitats within 90 m (300 ft) of these proposed work sites. Preconstruction surveys during the dry season shall consist of all suitable aquatic habitat in Felder Creek and upland habitat within 300 feet of proposed construction activities. 	PG&E will informally consult with USFWS.	Documentation of USFWS concurrence shall be submitted to the CPUC.	Prior to construction.
		PG&E shall submit a construction schedule to CPUC with reasoning for inability to conduct earthmoving activities during the dry season, if necessary.	CPUC to review construction schedule.	Prior to construction.
		PG&E and/or its contractor(s) to implement measure as defined.	CPUC mitigation monitor to inspect compliance at least once a week.	During construction within the vicinity of Felder Creek.
		PG&E and/or its contractor(s) to implement measure as defined.	Submit contract with Specialist to CPUC	At least 15 days prior to commencement of any construction activities.
		PG&E shall contract with a USFWS-approved Specialist to survey the work sites two weeks before the onset construction activities.	PG&E shall provide CPUC the survey of the work sites.	Two weeks prior to construction activities.
		PG&E and/or its contractor(s) to implement measure as defined.	PG&E shall provide CPUC the survey of the work sites.	Two weeks prior to construction activities.

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> If CRLF are found within a work area prior to construction, the Specialist, with prior authorization from the USFWS, would relocate the frogs out of the project area in coordination with USFWS. A temporary silt-fence barrier would be installed around the work area to prevent CRLF from re-entering the work area. If a California red-legged frog is found nearby but outside a proposed work area, it should not be disturbed and USFWS shall be contacted. During wet season construction, temporary construction fencing should be installed to mark the limits of the affected work area(s) and to limit construction personnel and equipment to the designated work area. The location of the fencing should be determined by the Environmental Monitor in coordination with the construction supervisor. In addition, as recommended by the Specialist, a temporary drift fence (e.g. silt-fence) barrier should be installed to prevent California red-legged frogs from entering those work area(s) during project activities. A USFWS-approved Specialist shall conduct a training session for all construction personnel. At a minimum, the training shall include a description of the California red-legged frog and its habitat, the importance of the California red-legged frog and its habitat, the general measures that are being implemented to conserve the California red-legged frog as they relate to the project, and the boundaries within which the any construction activities may occur. The biologist should provide maps of potential CRLF habitat to construction personnel. Following construction, remove all trash and construction debris from work areas. All trash and construction debris shall be properly contained. 	<p>PG&E and/or its contractor(s) to implement measure as defined.</p> <p>PG&E and/or its contractor(s) to implement measure as defined.</p> <p>PG&E and/or its contractor(s) to implement measure as defined.</p> <p>PG&E and/or its contractor(s) to implement measure as defined.</p>	<p>PG&E shall provide CPUC the survey of the work sites with documentation as to relocation of any CRLF.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week.</p> <p>PG&E shall submit verification of all construction personnel's attendance at this training session and maps of potential CRLF habitat to the CPUC.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week.</p>	<p>Two weeks prior to construction activities.</p> <p>During all phases of construction</p> <p>Prior to and during all phases of construction as new crews join the project.</p> <p>During and after construction.</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> Ensure that all fueling and maintenance of vehicles and other equipment and staging areas occurs at least 20 meters from any riparian habitat or water body. PG&E shall ensure contamination of habitat does not occur during such operations. Prior to the start of construction, PG&E shall prepare a plan to ensure a prompt and effective response to any accidental spills. 	PG&E and/or its contractor(s) to implement measure as defined.	<p>PG&E shall submit a Hazardous Substance Control and Emergency Response Plan as required under 2.7-1e to CPUC.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week.</p>	<p>Prior to and during all phases of construction.</p> <p>During all phases of construction.</p>
Impact 2.4-3: Project construction activities, such as tree removal and trimming, grading of temporary work areas, improvement of access roads, operation of heavy equipment, installation and removal of poles, and conductor installation, could disturb nesting birds, including raptors. Tree removal or trimming could disrupt nesting behavior or destroy active nests if they occur. Use of helicopters to remove and install poles and transmission line and to move equipment to and from remote areas could also impact nesting birds and raptors. Use of helicopters in nesting areas could cause adult and juvenile birds to flush and abandon the nest.	Mitigation Measure 2.4-3a: To the extent feasible, project activities shall not occur during the nesting and breeding season (from March 1 through August 15) to avoid impacts to nesting birds and raptors. If seasonal avoidance is not feasible, then Mitigation Measures 2.4-3b through 2.4-3d shall be implemented to avoid impacts to nesting birds and raptors.	PG&E and/or its contractor(s) to implement measure as defined	<p>PG&E to submit project construction schedule to the CPUC</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>Two weeks prior to nesting and breeding season</p> <p>During nesting and breeding season</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Same as above.	<p>Mitigation Measure 2.4-3b: Prior to any potential nest-disturbing activities during the period from March 1 through August 15, PG&E shall contract with an Environmental Monitor who shall conduct a pre-construction survey for nesting birds. The survey shall be conducted no more than one week prior to the start of work activities and would cover all affected areas including the transmission line route, staging areas, pull sites, and access road improvement areas where substantial ground disturbance or vegetation clearing is required.</p> <p>Additional pre-construction surveys shall be conducted for each new phase of project implementation that occurs during the nesting season, no more than two weeks prior to construction (e.g., prior to road improvement and pole installation, and again prior to conductor installation).</p> <p>If any active nests are found, an appropriate nest protection zone shall be established by the Environmental Monitor. These guidelines for protection zones shall be used: For passerine birds, a 50 - 100-foot protection zone shall be established around active nests; For raptors, a 300-foot protection zone and for golden eagles a 500 foot protection zone shall be established around active nests. These protection zones may be modified on a site-specific basis as determined by the Environmental Monitor or in coordination with CDFG.</p> <p>Active nests within the project area would be monitored for signs of disturbance. If the biological monitor determines that a disturbance is occurring, construction shall be halted, and the agencies shall be contacted as to the measures that shall be implemented.</p>	PG&E and/or its contractor(s) to implement measure as defined	<p>Submit pre-construction survey results for nesting birds to the CPUC showing any applicable protection zones if established.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>Prior to construction</p> <p>During nesting and breeding season</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	Mitigation Measure 2.4-3c: Use of helicopters shall be restricted to necessary trips to install and remove poles, install the transmission line, and to deliver and remove equipment to areas lacking vehicular access or in areas where access would cause severe erosion. Helicopters may be used in an area if active raptor nests occur if an appropriate buffer has been established in coordination with CDFG. In active nesting areas, helicopters may be used after young have fledged, as determined by a qualified biologist in coordination with CDFG.	PG&E and/or its contractor(s) to implement measure as defined	Submit pre-construction survey results for nesting birds to the CPUC Submit project construction schedule to CPUC for nesting bird period CPUC mitigation monitor to inspect compliance at least once a week	Prior to construction Two weeks prior to construction During nesting and breeding season
Impact 2.4-4: Project construction activities adjacent to Sonoma Creek could have short-term effects on aquatic habitat of the California freshwater shrimp. Construction activities could result in water quality impacts within Sonoma Creek.	Mitigation Measure 2.4-4: Certain construction activities at Pole 107 shall be conducted during the dry season (June 1 through October 1) to avoid impacts to California freshwater shrimp. Installation of the Pole 107 foundation and construction/improvement of the access road to Pole 107 shall be done during the dry season to avoid sediment or other debris discharge into Sonoma Creek. Installation of TSPs on top of foundations, wire and wood pole removal shall be done outside of the dry season using BMPs.	PG&E and/or its contractor(s) to implement measure as defined	Submit project construction schedule to CPUC for Poles 107 and 108 CPUC mitigation monitor to inspect compliance at least once a week	Prior to construction at those pole locations During construction at those pole locations

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
<p>Impact 2.4-5: Pond turtle habitat could occur throughout the project alignment in detention basins and stock ponds located on agricultural areas and in freshwater streams including Rodgers Creek, Felder Creek, Sonoma Creek, and Fryer Creek. Construction activities in the vicinity of streams or ponds occupied by Western pond turtle could harm individual turtles or temporarily affect their habitat.</p>	<p>Mitigation Measure 2.4-5: Prior to the start of construction activities, PG&E shall contract with a Specialist who shall perform pond turtle surveys within Rodgers Creek, Felder Creek, Sonoma Creek, Fryer Creek and in other ponded areas within 700 feet of the project features where ground-disturbing activities would occur. If no turtles are found during surveys, search for turtle nests is then not necessary. If turtles are found in aquatic habitat, then clearance of the nearby terrestrial habitat that would be impacted shall occur prior to construction activities; the biologist(s) shall look for eggs and WPT individuals including over-wintering hatchlings. If eggs are found, the biological monitor shall contact CDFG for the appropriate measures to relocate the eggs.</p> <p>Measures outlined in the SWPPP Plan shall be implemented to avoid impacts to pond turtle aquatic habitat.</p>	<p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>Submit qualified biologist resume to the CPUC</p> <p>Submit pre-construction survey results to the CPUC</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>Two weeks prior to pre-construction surveys</p> <p>Prior to construction</p> <p>During all phases of construction</p>
<p>Impact 2.4-7: Construction of the Proposed Project could result in impacts to potentially jurisdictional wetlands or waters of the U.S. under the jurisdiction of the Corps and waters of the state under the jurisdiction of the SWRCB or RWQCB. The Proposed Project could also result in impacts to the streambed and banks under jurisdiction of CDFG. Potential impacts include sedimentation of channels downstream of the construction areas during trenching and excavating activities and loss of riparian and instream wetland vegetation. Permanent impacts to jurisdictional features would not be greater than 1/2 acre qualifying the project to be authorized under a Section 404 Nationwide Permit (NWP).</p>	<p>Mitigation Measure 2.4-7a: In order to determine the extent of jurisdictional features within the project area, PG&E shall conduct a wetland delineation and submit it to the Corps prior to the start of construction. Potentially jurisdictional features have only been preliminarily identified. To remain in compliance with state and federal CWA, a determination of jurisdictional features shall be made. A wetland delineation, identifying and mapping potentially jurisdictional features subject to CWA Section 404 and 401 jurisdiction shall be completed. The wetland delineation map and report shall be submitted to the Corps for field verification of jurisdiction. The wetland delineation report and Corps verified map shall be submitted to RWQCB and CDFG, and other appropriate regulatory agencies.</p>	<p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>The wetland delineation report and Corps verified map shall be submitted to the CPUC.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>Prior to construction</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Same as above.	<p>Mitigation Measure 2.4-7b: To the extent feasible, final project design shall avoid impacts to wetlands and other waters. State and federal regulations specify that wetland avoidance is required to the extent feasible. Areas that are avoided shall be subject to Best Management Practices (BMPs). These Best Management Practices (BMPs), or storm water protection methods are standard in the construction industry and are proven effective to reduce water quality degradation. PG&E shall implement specific erosion control and surface water protection methods for each construction activity conducted as part of the project. As discussed in the Regulatory Context of Section 2.8, <i>Hydrology and Water Quality</i>, the project would be required to comply with the National Pollutant Discharge Elimination System (NPDES) Construction Activities Permit and therefore, be required to employ specific BMPs for the protection of surface water. PG&E is required to provide details as to the design and monitoring of the BMPs in the Stormwater Pollution Prevention Plan (SWPPP). Examples of standard BMPs, which PG&E would implement as part of the SWPPP and the typical application of those BMPs are as follows:</p>	PG&E and/or its contractor(s) to implement measure as defined	<p>PG&E shall submit a Stormwater Pollution Prevention Plan (SWPPP) to the CPUC</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>Prior to construction</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> Site grading operations necessary to develop temporary staging areas and pull and tension sites would be required to use appropriately-placed silt fencing to protect surface water sources from entrainment of sediment. Surfaces of these staging areas would be graveled during wet weather use to minimize erosion and sediment laden runoff. To restore vegetation at disturbed temporary staging areas, measures and monitoring specified in the SWPPP Plan shall be implemented to achieve the performance standards indicated in the Plan. Silt fencing is proposed as part of the project and is standard BMP to control erosion and siltation from loose or disturbed soil. Silt fencing would be placed as appropriate at each pole installation site, especially those adjacent to natural surface water bodies. Stockpiled soil generated from the excavation of pier foundations or boreholes would not be left at the site. Loose soil would be loaded and used elsewhere or stockpiled in staging areas. Soil stockpiled at the staging area would be managed as required in the SWPPP and be appropriately covered, vegetated, or bermed during rainy periods to ensure that eroded sediments do not runoff to surface water resources. 			

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> As part of the Proposed Project, access roads would be in- or out-sloped, as appropriate, providing effective surface sheet flow to avoid formation of erosive gullies caused by concentrated runoff. Where necessary, flow diversions, known as water bars, would be used on roadways exceeding gradients of 10 degrees. Water bars divert runoff from roads before gullies can form. Where necessary, all-weather roads would be covered with gravel base material. The gravel base would reduce the erosive energy to reduce erosion. NPDES requires that the SWPPP show BMPs for control of discharges from waste handling and disposal areas and methods of on-site storage and disposal of construction materials and waste. The SWPPP must also describe the BMPs designed to minimize or eliminate the exposure of storm water to construction materials, equipment, vehicles, waste storage or service areas. The SWPPP would require PG&E to identify equipment storage, cleaning and maintenance areas. 			
Same as above.	Mitigation Measure 2.4-7c: To the extent practicable, ground-disturbing activities such as access road construction, site grading, and foundation installation shall be conducted during the dry season (June 1 through October 1). The dry season window may begin as early as May 1 if ground conditions at the work sites and access routes are determined to be sufficiently dry by an Environmental Monitor.	PG&E and/or its contractor(s) to implement measure as defined	<p>PG&E to submit a project grading plan to the CPUC.</p> <p>PG&E to submit construction schedule showing timing of said activities during the dry season</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>Prior to construction</p> <p>Two weeks prior to start of dry season</p> <p>During the dry season</p>
Same as above.	Mitigation Measure 2.4-7d: Wetlands and other waters, including vernal pools, shall be avoided during construction activities to the extent feasible. Installation of exclusionary fencing and other appropriate methods shall be installed at specific locations described below.	PG&E and/or its contractor(s) to implement measure as defined	PG&E to submit a construction plan focusing on wetland and vernal pool avoidance to the CPUC	At least one month prior to start of construction.

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> For the vernal pools between Poles 43 and 44, an Environmental Monitor shall establish an protection zone of the maximum practicable distance, not less than 50 or greater than 100 feet, from the wetland edge. The exclusion zone shall be staked and flagged or delineated with temporary fencing. For work at Pole 107 and its access road near Sonoma Creek, temporary exclusion fencing and silt fencing shall be installed at the downslope edge of the work footprint and not less than 25 feet from the top of the bank of Sonoma Creek. Staking and flagging or fencing shall be completed prior to any construction activities and shall remain in place during all construction activities. For the vernal marsh near Poles 40 and 41, silt fencing shall be installed between the access road and the marsh as close as practicable to the edge of the road improvements footprint to prevent sedimentation impacts to the marsh (see Mitigation Measure 2.4-7b). PG&E shall contract with an Environmental Monitor to monitor protected areas during all work activities in the vicinity of wetlands and sensitive aquatic and riparian habitats including Sonoma Creek, Felder Creek, and other watercourses that may be affected by the project. The Environmental Monitor shall verify that environmental fencing, erosion and sediment control measures, and other protection measures are properly installed and are effective. If problems are found, the Environmental Monitor shall recommend remedial measures. The monitor shall have the authority to stop activities that are likely to adversely affect sensitive aquatic habitats and recommend alternative work practices in consultation with construction personnel. 		<p>PG&E to submit the resume and/or qualification of the environmental monitor and professional biologist to the CPUC.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week.</p> <p>Installation of the silt fence shall be monitored by a qualified biologist.</p> <p>The Environmental Monitor shall provide the CPUC verification that environmental fencing, erosion and sediment control measures, and other protection measures are properly installed and are effective.</p> <p>CPUC mitigation monitor to inspect compliance at least once a week.</p>	<p>At least two weeks prior to construction</p> <p>During all phases of construction</p> <p>Prior to road improvement work in this area.</p> <p>Prior to Construction</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	Mitigation Measure 2.4-7e: Prior to the start of construction, for any jurisdictional features identified as a result of implementing Mitigation Measure 2.4-7a, PG&E shall obtain necessary regulatory permits. Construction activities within jurisdictional features including wetlands and vernal pools would require permit approval from the Corps and RWQCB for fill in wetlands and other Waters of the U.S. pursuant to Section 404 of the federal Clean Water Act. Water quality certification from RWQCB would also be required pursuant to Section 401 of the federal CWA. In addition, the CDFG has jurisdiction pursuant to Section 1601-1616 of the Fish and Game Code for construction activities affecting, or within the channels or banks of (or under) Sonoma, Rodgers, Fryer and Felder Creeks which would require Streambed Alteration Agreements. Terms and conditions of the permits would include measures to protect and maintain water quality, restore work sites, and mitigate for permanent and temporary impacts.	PG&E and/or its contractor(s) to implement measure as defined	PG&E to submit copies of the permits to the CPUC. CPUC mitigation monitor to inspect compliance at least once a week	Prior to construction During all phases of construction
	Mitigation Measure 2.4-7f: Measures to prevent erosion and sedimentation and to restore work areas where vegetation would be removed or where bare soil is exposed shall be applied to project elements as specified in the SWPPP Plan.	PG&E and/or its contractor(s) to implement measure as defined	PG&E to submit copies of the SWPPP Plan to the CPUC. CPUC mitigation monitor to inspect compliance at least once a week	Prior to construction During all phases of construction
Impact 2.4-9: Construction activities could potentially spread noxious or invasive weeds into the project area and within the project area where weeds do not currently exist. New noxious or invasive weed species could also be transported into the project area if seeds or plant material is carried on vehicles and construction equipment.	Mitigation Measure 2.4-9a: To reduce the likelihood of spreading noxious or invasive weeds within the project area or increasing their abundance in the project area, or introducing new noxious or invasive weed species to the project area, PG&E shall prepare and submit a Vegetation Management & Restoration Plan which includes best management practices for control of noxious weeds.	PG&E and/or its contractor(s) to implement measure as defined	PG&E shall submit a Vegetation Management & Restoration Plan to the CPUC for approval prior to construction CPUC mitigation monitor to inspect compliance at least once a week	Prior to construction During all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	Mitigation Measure 2.4-9b: To reduce the potential for the spread of invasive or noxious weeds, cleaning stations shall be set up at key points along access roads. Mud and debris shall be scraped, brushed, or hosed from vehicles. A power washer shall be used where feasible. Cleaning of personnel shall include removal of mud and debris from boots and clothing.	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to inspect compliance once a week.	During all phases of construction
Impact 2.4-10: The project could result in the spread of the Sudden Oak Death pathogen.	Mitigation Measure 2.4-10a: To reduce the potential for the spread of the Sudden Oak Death pathogen, PG&E shall comply with applicable regulations during the construction activities including vegetation trimming, clearing, and removal and by following the practices documented as part of the Vegetation Management & Restoration Plan which shall include the following mitigation measures to reduce the potential for spread of the SOD pathogen.	PG&E and/or its contractor(s) to implement measure as defined	PG&E shall submit the Vegetation Management & Restoration Plan to the CPUC for approval prior to construction CPUC mitigation monitor to inspect compliance at least once a week	Prior to construction During all phases of construction
Same as above.	Mitigation Measure 2.4-10b: To reduce the potential for the spread of SOD, Mitigation Measure 2.4-9b shall be implemented. Cleaning stations shall be set up at key points along access roads easily accessible for job site personnel and vehicles. Mud and debris shall be scraped, brushed, or hosed from vehicles. A power washer shall be used where feasible. Cleaning of personnel shall include removal of mud and debris from boots and clothing.	See Mitigation Measure 2.4-9b	See Mitigation Measure 2.4-9b	See Mitigation Measure 2.4-9b
Same as above.	Mitigation Measure 2.4-10c: No plant material shall be removed from the project area to the extent feasible. Any branches, limbs, twigs, or other tree debris shall be left onsite. Any plant material trimmed or removed along Leveroni Road shall be removed and disposed of at an appropriate location.	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to inspect compliance at least once a week	During all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Same as above.	Mitigation Measure 2.4-10d: Work in the project area shall be performed during the dry season (May through October) to the extent feasible. If work is performed during the wet season vehicles and personnel shall, to the extent feasible, be kept to paved areas and avoid mud.	PG&E and/or its contractor(s) to implement measure as defined	PG&E to submit construction schedule to the CPUC	Prior to construction in SOD infected areas Prior to construction during the dry season
Same as above.	Mitigation Measure 2.4-10e: PG&E shall institute a sanitation program to be approved by the CPUC including the implementation of Mitigation Measure 2.4-10b . Sanitation measures include decontamination of vehicles, personnel, tools and equipment. Mud and debris shall be scraped, brushed, or hosed from vehicles and equipment. A power washer shall be used where feasible. Sanitation of personnel shall include removal of mud and debris from boots clothing, and skin. Sanitation of tools that have contacted vegetation or soils shall be performed after completion of work to using Lysol® spray, a 70% or greater solution of alcohol, or a Clorox® solution (1 part Clorox® to 9 parts water or Clorox clean up®). At the cleaning stations, a person trained by a qualified biologist, botanist or arborist experienced with SOD shall inspect each worker's clothing, especially the shoes. Any branches, limbs, twigs, seeds, or other tree debris shall be removed from worker's clothing. The inspection shall occur daily after work has been completed.	PG&E and/or its contractor(s) to implement measure as defined	PG&E to submit specific cleaning and sanitation protocols to the CPUC for approval CPUC mitigation monitor to inspect compliance at least once a week	Prior to construction During all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Same as above.	Mitigation Measure 2.4-10f: Prior to the start of construction, PG&E shall provide a worker education seminar to all personnel. The seminar shall include distribution of materials that help identify signs of SOD, description of sanitation procedures, and other measures to avoid the spread of the pathogen. The seminar shall be facilitated by a qualified biologist, botanist or arborist or other qualified person experienced with SOD. Any workers who join the construction job after the initial worker education seminar shall be trained by the Environmental Monitor on all topics covered in the seminar.	PG&E and/or its contractor(s) to implement measure as defined	<p>PG&E to submit distribution materials to the CPUC</p> <p>PG&E to submit resume of qualified biologist, botanist or arborist experienced with SOD to the CPUC.</p> <p>PG&E to submit documentation of worker training in the form of sign in sheets to the CPUC</p> <p>CPUC mitigation monitor to inspect compliance at least once a week</p>	<p>Prior to construction</p> <p>Prior to construction</p> <p>Prior to and during all phases of construction</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Cultural Resources				
<p>Impact 2.5-1: If construction of the proposed project encounters currently unknown cultural resources, including archaeological resources, pursuant to CEQA Guidelines Section 15064.5 or CEQA Section 21083.2(g), this could cause substantial adverse changes to the significance of the resource.</p>	<p>Mitigation Measure 2.5-1a: In the event that any prehistoric or historic subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and PG&E and/or the CPUC shall consult with a qualified archaeologist to assess the significance of the find. If any find is determined to be significant, representatives of PG&E and/or the CPUC and a Specialist shall meet to determine the appropriate avoidance measures or other appropriate mitigation, with the ultimate determination to be made by the CPUC. All significant cultural materials recovered shall be, as necessary, subject to scientific analysis, professional museum curation, and a report prepared by a Specialist according to current professional standards.</p> <p>In considering any suggested mitigation proposed by the Specialist in order to mitigate impacts to historical resources or unique archaeological resources, the CPUC shall determine whether avoidance is necessary and feasible in light of factors such as the nature of the find, project design, costs, and other considerations. If avoidance is infeasible, other appropriate measures (e.g., data recovery) shall be instituted. Work may proceed on other parts of the project site while mitigation for historical resources or unique archaeological resources is carried out.</p>	PG&E and/or its contractor(s) to implement measure as defined	<p>PG&E to submit contact information and qualification of trained Specialist to CPUC for approval.</p> <p>PG&E and/or its contractor(s) to provide immediate verbal notification to the archeological expert and the CPUC of any discovered cultural resources.</p> <p>CPUC mitigation monitor to inspect compliance at least once weekly</p>	<p>Prior to start of construction</p> <p>Immediately upon discovery</p> <p>During all phases of construction requiring excavation activities</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<p>Mitigation Measure 2.5-1b: PG&E shall retain the services of a Specialist that has expertise in California prehistoric and urban historical archeology to be on-call during ground-disturbing activity within 200 feet of a perennial or seasonal watercourse (see Figures 1-4a through 1-4d). If an intact archeological deposit is encountered, all soil disturbing activities in the vicinity of the deposit shall cease. The archeological monitor shall be empowered to temporarily redirect demolition/excavation/construction crews and heavy equipment until the deposit is evaluated. The archeological monitor shall immediately notify the CPUC of the encountered archeological deposit. The archeological monitor shall, after making a reasonable effort to assess the identity, integrity, and significance of the encountered archeological deposit, present the findings of this assessment to the CPUC.</p> <p>If the CPUC, in consultation with the Specialist, determines that a significant archeological resource is present and that the resource could be adversely affected by the proposed project, the CPUC shall require PG&E to:</p> <ul style="list-style-type: none"> Re-design the project to avoid any adverse effect on the significant archeological resource; or 	<p>PG&E to contract with a Environmental Monitor to monitor the construction site at all times throughout construction. A specialist shall be retained to be on-call should a significant cultural resource be located during construction within 200 feet of a watercourse.</p> <p>If a significant archeological resource is present, PG&E and/or its contractor(s) to implement measure as defined</p>	<p>PG&E to submit contact information, qualifications of Environmental Monitor and On-call Specialist, and copy of contract with these two individuals to CPUC for approval.</p> <p>CPUC mitigation monitor to inspect compliance at least once weekly</p> <p>PG&E to submit project re-design to CPUC for approval</p> <p>CPUC mitigation monitor to inspect compliance at least once weekly</p>	<p>At least two weeks prior to start of construction</p> <p>During all phases of construction requiring excavation activities</p> <p>Prior to construction of re-design portion of the project</p> <p>During all phases of re-design construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> Implement an archeological data recovery program (ADRP) (unless the archaeologist determines that the archeological resource is of greater interpretive use than research significance and that interpretive use of the resource is feasible). If the circumstances warrant an archeological data recovery program, an ADRP shall be conducted. The project archaeologist and the CPUC shall meet and consult to determine the scope of the ADRP. The archaeologist shall prepare a draft ADRP that shall be submitted to the CPUC for review and approval. The ADRP shall identify how the proposed data recovery program would preserve the significant information the archeological resource is expected to contain. That is, the ADRP shall identify the scientific/historical research questions are applicable to the expected resource, the data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Data recovery, in general, should be limited to the portions of the historical property that could be adversely affected by the Proposed Project. Destructive data recovery methods shall not be applied to portions of the archeological resources if nondestructive methods are practical. 	If a significant archeological resource is present, PG&E and/or its contractor(s) to implement measure as defined	<p>PG&E shall submit an ADRP to the CPUC for approval</p> <p>CPUC mitigation monitor to inspect compliance at least once weekly</p>	<p>Prior to construction within area determined to warrant an ADRP.</p> <p>Prior to construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Impact 2.5-2: The Proposed Project could adversely affect unidentified paleontologic resources at the pole and road construction sites.	Mitigation Measure 2.5-2: In the event of unanticipated paleontologic discoveries, PG&E shall notify a Specialist who shall document the discovery as needed, evaluate the potential resource, and assess the significance of the find under the criteria set forth in CEQA Guidelines Section 15064.5. In the event of an unanticipated discovery of a breas, true, and/or trace fossil during construction, excavations within 50 feet of the find shall be temporarily halted or diverted until the discovery is examined by a qualified paleontologist (per Society of Vertebrate Paleontology standards (SVP 1995 and SVP, 1996). The paleontologist shall notify the appropriate agencies to determine procedures that would be followed before construction is allowed to resume at the location of the find. If the CPUC determines that avoidance is not feasible, the paleontologist shall prepare an excavation plan for mitigating the effect of the project on the qualities that make the resource important, and such plan shall be implemented. The plan shall be submitted to the CPUC for review and approval.	PG&E to implement measure as defined	PG&E to submit contact information and qualifications of a Specialist to be notified of any unanticipated discoveries during construction PG&E and/or its contractor(s) to provide immediate verbal notification to the paleontologist and the CPUC of any discovered cultural resources; with follow up written documentation noting date of discovery, type of discovery and actions taken to protect the resource(s). CPUC mitigation monitor to monitor compliance	A. Prior to start of construction Immediately upon discovery During all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Impact 2.5-3: Project construction could result in damage to previously unidentified human remains.	Mitigation Measure 2.5-3: In the event that human skeletal remains are uncovered during construction activities for the Proposed Project, PG&E shall immediately halt work, contact the Sonoma County Coroner to evaluate the remains, and follow the procedures and protocols pursuant to Section 15064.5 (e)(1) of the CEQA Guidelines. If the County Coroner determines that the remains are Native American, PG&E shall contact the California Native American Heritage Commission, pursuant to subdivision (c) of Section 7050.5 of the Health and Safety Code, and all excavation and site preparation activities shall cease until appropriate arrangements are made.	PG&E and/or its contractor(s) to implement measure as defined	PG&E and/or its contractor(s) to provide immediate verbal notification to the Sonoma County Coroner and the CPUC of any discovered human remains; with follow up written documentation noting date of discovery, type of discovery and actions taken to protect the resource(s). PG&E to contract Native American Heritage Commission if Coroner determines remains are Native American CPUC mitigation monitor to monitor compliance	Immediately upon discovery Upon notification that remains are Native American remains by the Sonoma County Coroner During all phases of construction
Geology, Soils, and Seismicity				
No mitigation required				
Hazards and Hazardous Materials				
Impact 2.7-1: Construction activities would require the use of certain materials such as fuels, oils, solvents, and other chemical products that, in large quantities, could pose a potential hazard to the public or the environment if improperly used or inadvertently released.	Mitigation Measure 2.7-1a: PG&E and/or its contractor(s) shall implement construction best management practices including but not limited to the following: <ul style="list-style-type: none"> Follow manufacturer's recommendations on use, storage, and disposal of chemical products used in construction; Avoid overtopping construction equipment fuel gas tanks; 	PG&E and/or its contractor(s) to implement measure as defined PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to monitor compliance CPUC mitigation monitor to monitor compliance	During all phases of construction During all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> During routine maintenance of construction equipment, properly contain and remove grease and oils; and Properly dispose of discarded containers of fuels and other chemicals. 	<p>PG&E and/or its contractor(s) to implement measure as defined</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>CPUC mitigation monitor to monitor compliance</p> <p>CPUC mitigation monitor to monitor compliance</p>	<p>During all phases of construction</p> <p>During all phases of construction</p>
	<p>Mitigation Measure 2.7-1b: Hazardous Substance Control and Emergency Response Plan – PG&E shall prepare a Hazardous Substance Control and Emergency Response Plan (the Plan) for the project and implement it during construction. The Plan shall prescribe hazardous material handling procedures to reduce the potential for a spill during construction, or exposure of the workers or public to hazardous materials. The Plan shall also include a discussion of appropriate response actions in the event that hazardous materials are released or encountered during excavation activities.</p>	<p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>PG&E to submit the Plan to the Sonoma County Department of Emergency Services, Hazardous Materials Division, the County's Certified Unified Program Agency, and the CPUC for review and approval.</p> <p>CPUC mitigation monitor to inspect compliance at least once weekly</p>	<p>Submit final plan to CPUC at least two weeks prior to start of construction</p> <p>During all phases of construction</p>
	<p>Mitigation Measure 2.7-1c: Health and Safety Plan – PG&E shall prepare and implement a Health and Safety Plan to ensure the health and safety of construction workers and the public during project construction. The plan shall include information on the appropriate personal protective equipment to be used during construction.</p>	<p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>PG&E to submit the Plan to the CPUC for review and approval.</p> <p>CPUC mitigation monitor to inspect compliance at least once weekly</p>	<p>Submit final plan to CPUC two weeks prior to start of construction</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	Mitigation Measure 2.7-1d: <i>Worker Environmental Awareness Program (WEAP)</i> – PG&E shall ensure that an environmental training program is established and delivered to communicate environmental concerns and appropriate work practices to all construction field personnel. The training program shall emphasize site-specific physical conditions to improve hazard prevention, and shall include a review of the Health and Safety Plan and the Hazardous Substance Control and Emergency Response Plan. PG&E shall submit documentation to the CPUC mitigation monitor that each worker on the project has undergone this training program.	PG&E and/or its contractor(s) to implement measure as defined	PG&E and/or its contractor(s) to submit a description of the training. PG&E shall submit copies of sign-in sheets from the training session(s) to CPUC to verify compliance	Training to be completed at least one week prior to start of construction Sign-in sheets to be submitted prior to start of construction
	Mitigation Measure 2.7-1e: <i>Emergency Spill Supplies and Equipment</i> – PG&E shall ensure that oil-absorbent material, tarps, and storage drums shall be used to contain and control any minor releases. Emergency spill supplies and equipment shall be kept adjacent to all areas of work, and shall be clearly marked. Detailed information for responding to accidental spills and for handling any resulting hazardous materials shall be provided in the project's Hazardous Substance Control and Emergency Response Plan, which shall be implemented during construction.	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to inspect compliance at least once weekly	During all phases of construction
Hydrology and Water Quality				
No mitigation required				
Aesthetics				
Impact 2.9-1: Use of temporary construction staging areas and pull sites 2a, 2b, 3a, 3b, 6a, 6b, 7a, 7b, and 8a (see Figures 1-4(a) through 1-4(d) for exact locations) during the approximately 19-month construction period could result in adverse, albeit temporary, impacts to visual quality.	Mitigation Measure 2.9-1: Although PG&E would prepare the pull/tension sites during the dry season to minimize impacts, equipment shall not be placed on such sites any sooner than two weeks prior to the required use. After each pull/tensions site is no longer being used, PG&E and/or its contractor(s) shall clean up the site and restore in accordance with the SWPPP Plan.	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to monitor compliance at least once weekly	During all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Impact 2.9-2: After construction activities have been completed, if staging areas and pull/tension sites have not been restored to preexisting conditions, then the Proposed Project would result in potentially significant adverse physical effects to the visual character of the area.	Mitigation Measures 2.9-2: PG&E and/or its contractors shall clean up and restore each staging area and pull/tension sites to preconstruction conditions after construction activities in accordance with the SWPPP Plan.	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to monitor compliance	Within one week after construction activities have terminated at each of the staging areas and pull/tension sites
Impact 2.9-3: After construction activities have been completed, if the portion of the project area encompassed under Mitigation Measure 2.1-1 has not been restored to preexisting conditions, the Proposed Project would result in potentially significant adverse physical effects to the visual character of the area.	Mitigation Measures 2.9-3: PG&E and/or its contractors shall clean up and restore the Leveroni Road construction area encompassed under Mitigation Measure 2.1-1 to preconstruction conditions after construction activities in accordance with the SWPPP Plan.	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to monitor compliance	Within one week after construction activities have terminated along Leveroni Road from Fifth Street West to the Sonoma Substation
Mineral Resources				
No mitigation required				
Noise				
Impact 2.11-1: The project could generate noise levels in excess of local standards during project construction.	Mitigation Measure 2.11-1a: Construction activity shall be limited to the least noise-sensitive daytime hours between 8:00 a.m. and 7:00 p.m., with some exceptions (as approved by the CPUC) as required for safety considerations or certain construction procedures that cannot be interrupted.	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to monitor compliance	During all phases of construction
	Mitigation Measure 2.11-1b: The following noise reduction and suppression techniques shall be employed during project construction to minimize the impact of temporary construction-related noise on nearby sensitive receptors: <ul style="list-style-type: none"> Comply with manufacturers' muffler requirements. 	PG&E and/or its contractor(s) to implement measure as defined	CPUC mitigation monitor to periodically inspect equipment	Prior to and during construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> Notify residences in advance of the construction schedule and how many days they may be affected. Provide a phone number for a construction supervisor who would handle construction noise questions and complaints. Minimize idling of engines; turn off engines when not in use, where applicable. Shield compressors and other small stationary equipment with portable barriers when within 100 feet of residences. Route truck traffic away from noise-sensitive areas where feasible. 	<p>PG&E and/or its contractor(s) shall setup a phone noise complaint line and notify, in writing, residents within 300 feet of the project site, who to contact should any observed noise violations occur</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p> <p>PG&E and/or its contractor(s) to implement measure as defined</p>	<p>PG&E to notify the CPUC if/when complaints are received, within 24 hours of receipt of noise complaint</p> <p>CPUC mitigation monitor to monitor compliance at least once weekly</p> <p>CPUC mitigation monitor to monitor compliance at least once weekly</p> <p>CPUC mitigation monitor to monitor compliance</p>	<p>Prior to start of construction and during all phases of construction for complaints received</p> <p>During all phases of construction</p> <p>During all phases of construction</p> <p>During all phases of construction</p>
Population and Housing				
No mitigation required				
Public Services				
Impact 2.13-1: Fire and emergency medical services could be required in the event of an accident or emergency during project construction or operation.	Mitigation Measure 2.13-1a: PG&E shall prepare a Health and Safety Plan that would address emergency medical services in the case of an emergency. The manual shall list procedures and specific emergency response and evacuation measures that would be required to be followed during emergency situations. PG&E shall prepare this manual and distribute it to all PG&E and contract workers involved in the project prior to construction and operation of the Proposed Project.	PG&E to implement measure as defined	<p>PG&E to submit the Plan to the CPUC for review and approval.</p> <p>PG&E to distribute approved plan to all PG&E and contract workers involved in project construction and operations.</p> <p>CPUC mitigation monitor to inspect compliance with the Health and Safety Plan at least once weekly</p>	<p>Submit final plan to CPUC two weeks prior to start of construction</p> <p>Prior to start of construction</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	Mitigation Measure 2.13-1b: Water tanks shall be sited in the project area that would be available to protect against fire. All vehicles shall carry fire suppression equipment. PG&E shall contact and coordinate with the City of Sonoma and Sonoma County fire departments to determine minimum amounts of fire equipment to be carried on the vehicles and appropriate locations for the water tanks. PG&E shall submit verification of its consultation with the local fire departments and the CPUC mitigation monitor shall ensure these measures are implemented.	PG&E and/or its contractor(s) to implement measure as defined	PG&E to submit written summary of discussion with City of Sonoma and Sonoma County fire departments staff to the CPUC CPUC mitigation monitor to monitor compliance	Prior to start of construction During all phases of construction
Impact 2.13-2: Project construction and/or operation traffic could affect fire department response times.	Mitigation Measure 2.13-2: PG&E shall coordinate with the City of Sonoma and Sonoma County emergency personnel prior to construction to ensure that construction activities and associated lane closures would not significantly affect emergency response vehicles.	PG&E and/or its contractor(s) to implement measure as defined	PG&E to submit written summary of discussion with City of Sonoma and Sonoma County emergency personal to the CPUC CPUC mitigation monitor to monitor compliance	Prior to start of construction During all phases of construction
Recreation				
Impact 2.14-1: Construction activities could result in temporary adverse impacts to the Madera Park and the Fryer Creek bike path, which terminates at Leveroni Road.	Mitigation Measure 2.14-1a: Construction activities that occur along Leveroni Road from Harrington Drive to Fryer Creek Drive shall only occur during the weekdays or as otherwise permitted by the City of Sonoma. PG&E and/or its contractor(s) shall ensure that Madera Park and the Fryer Creek bike path are fully accessible during weekends, as well as any holidays observed by the City of Sonoma. PG&E shall prepare a work plan to implement this measure and shall provide the work plan to CPUC staff for approval prior to the start of construction. Compliance with this measure shall be monitored by the CPUC mitigation monitor.	PG&E and/or its contractor(s) to implement measure as defined	PG&E to submit the work plan to the CPUC for review and approval. CPUC mitigation monitor to inspect compliance	Submit final plan to CPUC two weeks prior to start of construction activities occurring along Leveroni Road During all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<p>Mitigation Measure 2.14-1b: PG&E shall provide signage that alerts bicyclists to walk their bicycles through the construction area. PG&E shall also provide notices to local residents of any planned disruption to Madera Park and/or the Fryer Creek bike path (properties within 300 feet of Madera Park). The notices and signage shall include the following details:</p> <ul style="list-style-type: none"> Expected dates of Madera Park and/or Fryer Creek bike path disruption. Description and map of temporary relocation of park facilities. Name and phone numbers of persons to contact at PG&E and the City of Sonoma. <p>The notices shall be sent to residents and signage posted at least 14 days in advance of any planned construction activities along Leveroni Road between Harrington Road and Fryer Creek Drive. The CPUC mitigation monitor shall verify the posting of signage and notification prior to construction.</p>	PG&E and/or its contractor(s) to implement measure as defined	<p>PG&E to submit map showing location of signage and photographs of the signage to CPUC</p> <p>PG&E to submit proof of mailing of notices to residents to CPUC</p> <p>CPUC mitigation monitor to verify posting signage and notification</p>	<p>At least two weeks prior to start of construction activities along Leveroni Road</p> <p>Prior to start of construction activities along Leveroni Road</p>
Transportation / Traffic				
Impact 2.15-1: Project construction activities could adversely affect traffic and transportation conditions in the project area.	<p>Mitigation Measure 2.15-1a: PG&E shall obtain and comply with local road encroachment permits for roads that are affected by construction activities (i.e., Frates Road, Felder Road, and Leveroni Road).</p>	PG&E to implement measure as defined	PG&E and/or its contractor(s) to attain, comply with, and submit copies of acquired permits to the CPUC	<p>Attain and submit permits to the CPUC two weeks prior to start of construction</p> <p>Comply with permits during all phases of construction</p>
	<p>Mitigation Measure 2.15-1b: PG&E shall prepare and implement a Traffic Management Plan subject to approval by the appropriate local jurisdiction (i.e., Sonoma County or City of Sonoma) prior to construction. The plan shall:</p>	PG&E to implement measure as defined	CPUC and the appropriate local jurisdiction (i.e., Sonoma County or City of Sonoma) to review	Submit final plan to CPUC and the appropriate local jurisdiction (i.e., Sonoma County or

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	<ul style="list-style-type: none"> • Include a discussion of work hours, haul routes, limits on the length of open trench, work area delineation, traffic control and flagging; • Identify all access and parking restriction and signage requirements; • Layout a plan for notifications and a process for communication with affected residents and businesses prior to the start of construction. Advance public notification shall include posting of notices and appropriate signage of construction activities. The written notification shall include the construction schedule, the exact location and duration of activities within each street (i.e., which lanes and access point/driveways would be blocked on which days and for how long), and a toll-free telephone number for receiving questions or complaints; • Include a plan to coordinate all construction activities with emergency service providers in the area at least one month in advance. Emergency service providers would be notified of the timing, location, and duration of construction activities. All roads would remain passable to emergency service vehicles at all times; • Include the requirement that all open trenches be covered with metal plates at the end of each workday to accommodate traffic and access; and • Specify the street restoration requirements pursuant to PG&E's franchise agreements with the local jurisdictions. 		<p>and approve submitted Traffic Management Plan</p> <p>CPUC mitigation monitor to inspect compliance at least once weekly</p>	<p>City of Sonoma) one month prior to start of construction</p> <p>During all phases of construction</p>

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	Mitigation Measure 2.15-1c: PG&E shall identify all roadway locations where special construction techniques (e.g., horizontal boring, directional drilling or night construction) would be used to minimize impacts to traffic flow.	PG&E and/or its contractor(s) to implement measure as defined	PG&E and/or its contractor(s) to submit report identifying information required in the mitigation measure to the CPUC to review and approve. CPUC mitigation monitor to inspect compliance at least once weekly	Submit to CPUC two weeks prior to start of construction During all phases of construction
	Mitigation Measure 2.15-1d: PG&E shall develop circulation and detour plans to minimize impact to local street circulation. This may include the use of signing and flagging to guide vehicles through and/or around the construction zone.	PG&E to implement measure as defined	PG&E and/or its contractor(s) to submit circulation and detour plans to the CPUC to review and approve. CPUC mitigation monitor to inspect compliance at least once weekly	Submit to final plans to CPUC two weeks prior to start of construction During all phases of construction
	Mitigation Measure 2.15-1e: PG&E shall encourage construction crews to park at substations to limit lane closures in the public right-of-way.	PG&E to implement measure as defined during environmental training	PG&E and/or its contractor(s) to submit a description of the training. PG&E to submit documentation of worker training in the form of sign in sheets to the CPUC	Prior to and during all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
	Mitigation Measure 2.15-1f: PG&E shall coordinate with Caltrans, Sonoma County, City of Sonoma, and any other appropriate entity, regarding measures to minimize the cumulative effect of simultaneous construction activities in overlapping areas.	PG&E to implement measure as defined	PG&E and/or its contractor(s) to submit plans to minimize the cumulative effect of simultaneous construction activities in overlapping areas to the CPUC to review and approve. CPUC mitigation monitor to inspect compliance at least once weekly	Submit to final plan to CPUC two weeks prior to start of construction During all phases of construction
	Mitigation Measure 2.15-1g: PG&E shall consult with Sonoma County Transit at least one month prior to construction to coordinate bus stop relocations (as necessary) and to reduce potential interruption of transit service.	PG&E to implement measure as defined	PG&E to submit plans to reduce potential interruption of transit service to the CPUC to review and approve. CPUC mitigation monitor to inspect compliance at least once weekly	Submit to final plans to CPUC two weeks prior to start of construction During all phases of construction
Impact 2.15-2: Operation of the “skycrane” helicopters could result in exposure of structures or persons to risk.	Mitigation Measure 2.15-2: PG&E shall prepare and comply with a Lift Plan approved by the FAA prior to all “skycrane” construction helicopter operations. The need for short-term road closures, if any, shall be identified in the Lift Plan and shall be coordinated with the appropriate jurisdictions as described in Mitigation Measures 2.15-1a through 2.15-1g. The Lift Plan shall also discuss the potential to adversely affect to nearby residents.	PG&E to implement measure as defined	PG&E to submit FAA approved Lift Plan to CPUC. If coordination with local agencies is required under the Lift Plan, PG&E shall submit written summary of discussion with appropriate jurisdictions to the CPUC CPUC mitigation monitor to inspect compliance at least once weekly	Submit to final approved plan to CPUC two weeks prior to start of construction Prior to construction During all phases of construction

TABLE 5-1 (continued)
MITIGATION MONITORING AND REPORTING PROGRAM FOR THE LAKEVILLE-SONOMA 115 kV TRANSMISSION LINE PROJECT

Environmental Impact	Mitigation Measures Proposed in this MND	Implementing Actions	Monitoring/ Reporting Requirements	Monitoring Schedule
Impact 2.15-3: Project construction activities could increase potential traffic safety hazards for vehicles, bicyclists and pedestrians on public roadways.	Mitigation Measure 2.15-3: Implement Mitigation Measure 2.15-1b through 2.15-1g.	PG&E to implement measure as defined	See Mitigation Measures 2.15-1b through 2.15-1g.	See Mitigation Measures 2.15-1b through 2.15-1g.
Impact 2.15-4: Project construction activities could result in delays for emergency vehicles on project area roadways.	Mitigation Measure 2.15-4: Implement Mitigation Measure 2.15-1b.	PG&E to implement measure as defined	See Mitigation Measure 2.15-1b	See Mitigation Measure 2.15-1b
Impact 2.15-5: Project construction activities could generate a demand for on-street parking spaces to accommodate construction worker vehicles on project area roadways.	Mitigation Measure 2.15-5: Implement Mitigation Measure 2.15-1e.	PG&E to implement measure as defined	See Mitigation Measure 2.15-1e	See Mitigation Measure 2.15-1e
Impact 2.15-6: Project construction activities could cause disruptions to transit service on project area roadways.	Mitigation Measure 2.15-6: Implement Mitigation Measure 2.15-1g.	PG&E to implement measure as defined	See Mitigation Measure 2.15-1g	See Mitigation Measure 2.15-1g
Utilities and Services				
Impact 2.16-1: Construction activities associated with Mitigation Measure 2.1-1 could inadvertently contact underground utility lines and/or facilities during underground construction, possibly leading to short-term utility service interruptions.	Mitigation Measure 2.16-1: PG&E shall ensure that Underground Service Alert is notified at least 14 days prior to initiation of construction activities of the underground portion of the transmission line. Underground Service Alert verifies the location of all existing underground utilities and alerts the other utilities to mark their facilities in the area of anticipated construction activities. Compliance with this measure shall be verified by the CPUC mitigation monitor.	PG&E to implement measure as defined	PG&E to submit verification that Underground Service Alert was contact to CPUC	At least 14 days prior to start of construction of underground portion of the transmission line
Mandatory Findings of Significance				
Impact 2.17-1: Project construction activities along Leveroni Road could adversely affect local noise and traffic conditions if the Proposed Project is constructed at the same time as the SVRWP segment along Leveroni Road.	Mitigation Measure 2.17-1: At least two weeks prior to commencement of project construction activities, PG&E shall contact the Sonoma County Water Agency to determine if construction of the Proposed Project and construction of the SVRWP would occur at the same time along Leveroni Road. If construction of both projects (the Proposed Project and SVRWP) would occur along Leveroni Road at the same time, then PG&E shall incorporate consideration of the SVRWP into its Traffic Management Plan required by Mitigation Measure 2.15-1.	PG&E to implement measure as defined including incorporation of Mitigation Measure 2.15-1	PG&E to submit documentation of correspondence and agreements (if required) between the Sonoma County Water Agency and PG&E.	Prior to construction